HTW-IM: UN-I ENV ALISAMENT

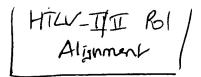
HTLV-II Env HTLV-I Env HIV SF2 Env Consensus	MLFS	11 13 50 50
HTLV-II Env HTLV-I Env HIV SF2 Env Consensus	-FCPLIF GDYSPSCTLTIGVS SY	32 36 100 100
HTLV-II Env HTLV-I Env HIV SF2 Env Consensus		45 49 150 150
HTLV-II Env HTLV-I Env HIV SF2 Env Consensus	A	60 64 200 200
HTLV-II Env HTLV-I Env HIV SF2 Env Consensus	PFC PNLI TYSGFHKTYS	77 81 250 250
HTLV-II Env HTLV-I Env HIV SF2 Env Consensus	QCTHGIKPVV STQLL NGSL AEEEVIIRSS NETNNAKIII VQLNKSVEIN	81 85 300 300
HTLV-II Env HTLV-I Env HIV SF2 Env Consensus		86 90 350 350
HTLV-II Env HTLV-I Env HIV SF2 Env Consensus	KPNR - GLGYYSFSYN DI GSLQ PY TKLRKOFR K TIAFDRSSGG DEIVMHSFN GGEFFY NT SQLFNSTWNDKPNR - G.GYYS.SY. DI GSL.SPY	110 114 400 400
HTLV-II Env HTLV-I Env HIV SF2 Env Consensus		126 130 450

HTLV-II Env HTLV-I Env HIV SF2 Env Consensus	LTRDGGKNTT NGIEIFRPAG GDMRDNWRSE LYKYKVVKIE PLGVAPTKAR	131 135 500 500
HTLV-II Env HTLV-I Env HIV SF2 Env Consensus	27 101	137 141 550 550
HTLV-II Env HTLV-I Env HIV SF2 Env Consensus	T E	156 160 600 600
HTLV-II Env HTLV-I Env HIV SF2 Env Consensus	M VDA F VDA LICTTTVPWN ASWSNKS NE IWDNMIWMQW EREIDNYTHL IYTU RESQN	163 167 650 650
HTLV-II Env HTLV-I Env HIV SF2 Env Consensus		191 195 681 700
HTLV-II Env HTLV-I Env HIV SF2 Env Consensus	LEHVLTPSTS WITKILKF Q LTLQSTNYSC MVCVDRSS SWHVLYPNI LDHILEPSIP WKSKLLTLVQ LTLQSTNYTC IVCVDRASIS TWHVLYSPNV II-VGG V GLR.VFAV-L L.H.L.PS WKIL.FLQ LTLQSTNY.C IVCVDR.SLS .WHVLYPN.	241 245 701 750
HTLV-II Env HTLV-I Env HIV SF2 Env Consensus	SUPQUTESRT ILFPSTALPA PP-SQPFPWT HCY PRLQAI TTDNCNNSII SVP-SS STP LLYPSTALPA PHLTLPFNWT HCF PQIQAI VSSPCHNSLI SUVRVR QGYSFLSFOTR SUPSS LYPSTALPA PPF.WT HCFQPR.QAIC.NS.I	290 294 719 800
HTLV-II Env HTLV-I Env HIV SF2 Env Consensus	PPFSLAPVP PPATRREAV PIAVWLVSAL AACIGIAGGV TGSLSLASSK PPFSLSPVP TLGSRSFRAV PVAVWLVSAL AMCAGVAGG TGSMSLASGK PPFSLSPVPTCR	340 344 735 850
HTLV-II Env HTLV-I Env HIV SF2 Env Consensus	SLLLEVOKOI SHLTQAIVKN HQNIIRVAQY AAQNRRGIDL FWEGGCICK SLLHEVOKOI SQLTQAIVKN HKNII KUAQY AAQNRRGIDL FWEGGCICKGGFC	390 394 760 900

HTLV-II Env	ALQEQCOFLN ISNTHVSVLQ ERPFLEKRVI TGWGLNWEIG ISQWAREALO	440
HTLV-I Env	ALQEQCRFPN ITNSHVPULQ ERPFLENRVL TGWGLNWEIG ISQWAREALO	444
HIV SF2 Env	SL-CLFSYHR LRELILIVAR IVELIGRAGW EVLKYWWAL- IDYWSQELKN	808
Consensus	ALQEQC.F.N-I.N.HV.VLQ ERPFLE.EV. TGWGLNWEIG ISQWAREALO	950
HTLV-II Env	ICTUILALLL LVULFGPCIL ROIQALPOR- LQNRHNQYSL INPETME	486
HTLV-I Env	ICTULVALLL LVULAGPCIL ROLRHLPSR- VRYPHYSL IKPESSL	488
HIV SF2 Env	SVISLLNATA IAVAEGIDRV IEIVQRAYRA FLNIPRRIRQ GLERALE	855
Consensus	ICTULLALLL LVUL.GPCIL ROI.LP.EN.H. I.PE	997

HTRU-I/I ENV)

HTLV-II Env HTLV-I Env Consensus	MCNVFFIL LESLTHEPLA QQSCODA IGUSSYHSER GERIOPVOIW MCKFLATLIL REQFCPLIFG DYSESCODA IGUSSYHSER CAPA ORVOSA MG	46 50 50
HTLV-II Env HTLV-I Env Consensus	NLDI NSI I'ID ORI PPOPNIL I'TYSGFHKIY SLYLFPHWIK KPNR G GYY TILDI LWI SAD QAL OPPOPNIL VSYSSYHATY SLYLFPHWIK KPNR G GYY LDI LE DO E PROPNIC VS H TV SLYLFPHWIK KPNR G GYY	96 100 100
HTLV-II Env HTLV-I Env Consensus	SESYNDPOSI CPYLOGO W TSAYTOPVSS POWERHSDVN FIGEVSDVŠL SPSYSDPOSI CPYLOGO W TCFYTOPVSS PMWKEDHDVN FIGEVSRINI S SY DPOSI CPYLOGO WIT WY WSS P WKE DWN FIGEVS	146 150 150
HTLV-II Env HTLV-I Env Consensus	HARFSKOGSS MIMAVDAPGY DE WEITSER TOPPREPER VHISTRANIE NAHESKOGEP FSIMVDAPGY DE WELVIER SOLPRIERE, LPHSVIDHIII NAHESKOG MANDAPGY DE WE ER OPEN DER STELL	196 200 200
HTLV-II Env HTLV-I Env Consensus	TPSTSWITKI DKFTOLTEOS TNYSCYVOVO RESLASWHVL Y IPNTSTPOO EPSIFWKSKL LITUOLTEOS TNYTICTIVOTO RESLASWHVL YSPNUSMP-S .ES. G. K. L. QLATOGS TNY C.VO.D.R.SIG WHVL Y DN G.D.	246 249 250
HTLV-II Env HTLV-I Env Consensus	TSSRTIF FPS LALPAPP-SQ PFFWTHCYCP RLOATFTDNC NNSTILPPFS SSTPLLWPS LALPAPHLTL PFFWTHCFDP QIQATVSSFC HISTILPPFS SS IL PS LALPAP PR WTHS P QAT C NS TLPPFS	295 299 300
HTLV-II Env HTLV-I Env Consensus	THE PARTY OF THE PROPERTY OF THE PROPERTY OF THE PARTY OF	345 349 350
HTLV-II Env HTLV-I Env Consensus	VIKIDIS 1/10 ARVANI A II. RAGYAAONR REBIDIDANDO CELEKA GEO VIKIDIS 1/16 A EVKNI AN II. KIIAOYAAONR REBIDIDANDO CELEKA GEO VIKIDIS 1/16 A EVKNI AN II. KIIAOYAAONR REBIDIDANDO CELEKA GEO VINKIDIS 1/16 A EVKNI A II. KIIAOYAAONR REBIDIDANDO CELEKA GEO	395 399 400
HTLV-II Env HTLV-I Env Consensus	e la par parte de la	445 449 450
HTLV-II Env HTLV-I Env Consensus	LAGGOVALOF CPCLEGROLQA EFORLONGIAN QYSLINDBIM INVALIDADOR CRESS INVALIDADOR CRESS INVALIDADOR CRESTOR	486 488 491



HTLV-II Pol HTLV-I Pol	HRSRPYGYTP DTRARAGKAP RHPDPRROWA NOHPVOTPPN PPTHILAIPK GKKAACNLA	50 23
Consensus		50
HTLV-II Pol HTLV-I Pol	VPRYPFLLPL RHPQQMDHHW KGRPTTMPGA SIPPRRPQPP PIAANSHSKH	100 26
Consensus		100
HTLV-II Pol HTLV-I Pol	HRPRTPSPTS PSCHISFKPE RLOALNEWS KAMEAGHUEP YEGPGNNPVF	150 65
Consensus		150
HTLV-II Pol HTLV-I Pol Consensus	PVKKENG MR FIHDLRAINS INTIDIGESP GPPDLISEPT ALLHLOTTIDI PVKKANGIMR PIHDLRAINS INTIDIGESSP GPPDLISEPT III AHLOTTIDI PVKK NG MR FINDLRAINS INTIDIGESSP GPPDLISEPT II HVOTTIDI	200 115 200
HTLV-II Pol HTLV-I Pol Consensus	TIDAEEOIPELE KOMOPYFARID IIROFONYGPO TERVAN IIVLEO GEKNSPTILEE FDAEEOIPELE KOFOPYFART VEO CNYGPO TERVAN KVILEO GEKNSPTILEE DAEEOIPELE KO OPYFART EO CNYGPO TERVAN VILEO GEKNSPTILEE	250 165 250
HTLV-II Pol HTLV-I Pol Consensus	QUAAVIAPM REVERTSTIV OYMODILLAS PINES OLI QATITH MOLAHIIC PI ROAFPOTIL OYMODICLAS PSHEDILILS EARMASIISH QUALILLE B. ER. IN . QVMBDICLAS B. E. L. LS. III. E. E.	300 215 300
HTLV-II Pol HTLV-I Pol Consensus	GUBARTO OURSE IL ERAPO RESENTATA DE LOS ESTADOS ESTADO	350 265 350
HTLV-II Pol HTLV-I Pol Consensus	OTAHERHIO CHERONOSCE OR THAN SECURIO SE SALENCA SE SALE	400 315 400
HTLV-II Pol HTLV-I Pol Consensus	We SONOS ESSE AND MESSES IN CONTINUES IN SECURITY AND ESSES AND AND HELD IN THE SONOS IN CONTINUES IN CONTINU	450 365 450
HTLV-II Pol HTLV-I Pol Consensus	STORMS THE TRANSPORT TO THE TRANSPORT OF	500 415 500
HTLV-II Pol HTLV-I Pol Consensus	SV STEETHEMG RE NECOSPS GEAKIN HILP TIM DEPRIOR PHONESPY IL SVENS LEHESE REKNIGA OFG ELWANE KTA AFT APVKALM PVERESPY III SV. TIM ME . RE NUG. 6	550 465 550

HTLV-II Pol HTLV-I Pol Consensus	TVAPCHESDE SPOKEANTEN DOUBLOODIT PERSHETHSA OKCEREATIC VVAPCHESDE STSFAANILW DKOULSORSF PERPH-KSA ORAEMICH H TVAPCHESDE S AAV. LOUIS TO DAD SALO ENGLE	600 514 600
HTLV-II Pol HTLV-I Pol Consensus	GIRAAKEMPS INTELDSKYE IKYTHSLAIG AFLOISÄHOT LOAALPELID GESSARSARC INLEEDSKYE YHYERITAIG IFOSRSOAP FOALLPRIES GU. A. A. LAUFEADSKYE. VI. EA. G. IA. G. S	650 5 64 650
HTLV-II Pol HTLV-I Pol Consensus	CKINYLHHVR SHTNLPDPIS TENEYDÖLT LAPLVELTPO GLAGLTHG O RKVLYLHHVR SHTNLPDPIS RLNALTDPIL TTEVLÇÜSPA HLHSFTHCO K. VIHHVR SHTNLPDPIS N. TO T E L. E	700 614 700
HTLV-II Pol HTLV-I Pol Consensus	FALVSFGATP REAKSLVQTC HICOTINEOH HMPRCMIRRG LLOPNHIWOGD TALTLOGAUT TEASNILRSC HACRGONFOH OMPRCHIRRG LLIPNHIWOGD AL GAT BALL CHE NOH MPRC TRRG LLIPNHIWOGD	750 664 750
HTLV-II Pol HTLV-I Pol Consensus	THE KYK Y LHVMVDTE SGATSVSCKK KETS BILSA VLOATSLUGK THE KYKNTL YELHVMVDTE SGATSATCKE KETSEDATS LLOATAHUGK THE KYK Y V. CHVMVDTE SGA S. K. KETS B. I.S. LOAT JUGK	800 714 800
HTLV-II Pol HTLV-I Pol Consensus	PLHINTONGE AFTSO TO DEF CUSYRTHEN HIPVNEUSSG EVERINGVIK PSYLVEDNGE AYISOTHENM CUSLAIRHIT HVPVNEUSSG EVERINGVIK E INTUNGE A SO E OTS II H IE H JEVNEUSSG EVER NO K	850 764 850
HTLV-II Pol HTLV-I Pol Consensus	NEINKALIC BARTANATH KARWAN ON VANPSCKORW O HHSPRICE THEMKYPTICK REPROMALS TARWAN ALTON VLTNCHKORW O HHSPRICE THE KAY TO BELL TAKE AND A TOLLY KOWAW O HHSPRICE	900 814 900
HTLV-II Pol HTLV-I Pol Consensus	TPEASTPPKP PPKNEYMKIP GLINORWKCP LOSLOEAAGA ALLSIDOS-P TPETRSLSNK QTHWYFKLP GLNSROWKGP DEALOEAAGA ALIPVSASSA	949 864 950
HTLV-II Pol HTLV-I Pol Consensus	FWILEWR LOKE AACPREDASE LASHAATE TO THE CWILLIAM LOS AACPREVGGP -A PKEKE COLLEGE	982 896 983

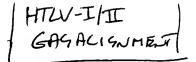
inment Pol Alianment

HTLV-II Pol HTLV-I Pol HIV SF2 POl Consensus	HRSRPYGYTP -DTRARAGKA PRHPDPRROMANQH PVQTPPNPPT GKKAACNLANTGASRPMARIIP FFREDLAFPQ GKAREFSSEQ TRANSPTSRE LRVWGRDNNS PSEAGADRQG RRPB.WA P. TP	43 21 50 50
HTLV-II Pol HTLV-I Pol HIV SF2 POl Consensus	HI-LALFKVP -RYPFLLPLR HPQQMDHHWKGPKAP -R	72 26 100 100
HTLV-II Pol HTLV-I Pol HIV SF2 POl Consensus	RPTTMPGASI PPRR	102 26 150 150
HTLV-II Pol HTLV-I Pol HIV SF2 POl Consensus	PRTPSPTSPSCPISFKFERLQA INDIV SKAIF-AGNCPVPFKFERLQA LQHLV RKAIF-AG CTLNFPISPI ETVPVKLKFG MDGPKVKQWP LTEEKIKVLI EICTEMEKEFP.SPEV.FKEERLQA LIVKAIF-AG	136 51 200 200
HTLV-II Pol HTLV-I Pol HIV SF2 POl Consensus	HIEPYSGP CANPURPUKK PIG-KWRFIH DIRATNATIT TLTSPSFGFP HIEPYTGP CANPURPUKK ANG-TWRFIH DIRATNSLUI DLSSSSFGFP KISKVGPENP MIRVFAJKK KOSTKWRKLV DFRELKKRID DFWEVQLGIP HIEPYGP CANEARKK NG-KWRFIH DIRATN DL.S.SFGFP	183 98 250 250
HTLV-II Pol HTLV-I Pol HIV SF2 POl Consensus	DLUSEPTALP HLOTILLIDA FFOIPLEKOY OFYFAFILIFO POLYGROTRY DLESEPTTLA HLOTILLIDA FFOIPLEKOF OFYFAFILIPO ONYGROTRY HPACIKKK-K SVIVILVODA MESVPLIKOF RKYTARILIPS INVETIRATELY DLASEPT.L. HLOTILLIDA FFOIPLEKOF OFYFAFILIPO ONYGROTRY	233 148 299 300
HTLV-II Pol HTLV-I Pol HIV SF2 POl Consensus	AWIVEPOCEK SHILE OO AAU NEVEKM FETSTIV YN DDILLASPIN AWKVEPOCEK SHILE MO HIII CEUROA FEDCIII OYN DDILLASPSH QYNVEPOCEK SHIE SSMOJKIII EPERKO NEDIVIMOVA DDLYVGSDLE AW. WEPOCEK NGEUIES. QUALIUS. E. HK. FE TII. OYN DDILLASP	283 198 349 350
HTLV-II Pol HTLV-I Pol HIV SF2 POl Consensus	EELQQLSQLT QALTTHGLP I Q TO TP GQIRF COVI SENHITYEST EDLLLLSEAT ASLISHGLP VERKTOTP GTIKF COII SENHITY AV IGQHRTKIEE RQHLLRWGF TUPEKKEOKE PPFLW CYEL HEKWIVOPI E.LLSTLHGLPKTOOTP G.I.F.Q.I SENHITY	333 248 399 400
HTLV-II Pol HTLV-I Pol HIV SF2 POl Consensus	PTIPIKSON LITTOVILSE I MASKGTPI LRKHLOSTYS AT HGYRDPRA PTVPIRSRA LPITOALLOE I MASKGTPT LROPLHS YC ALORHTDPRD -MLEKDSAR VNOICKLASK LAARSQIYAG IKVKACK LI RGTKALTE PT.BIKS.AB L.TIC.LICE ICASKGTP. LR.L.STY. AU.GDPR.	383 298 446 450

HTLV-II Pol HTLV-I Pol HIV SF2 POl Compsensus	CILLIPOQLH ATHAICEATO HNCRGRLNPA LPLI CIMINPSQVQ STVOLROADS QNCRSRLVQT LPLI VIETTEFAEL HEAENREITK EPVHGVYYDP SKLI LILTPO	GLISES TSCPTSVIFO GAIMET LICEPTIVED -VAELO KOCOGOWTYO G.I.LCPT.V.FO	433 348 495 500
HTLV-II Pol HTLV-I Pol HIV SF2 POl Consensus	PKONWPLAWI HIPHPPTSLC PWGHLLACTI LTL SKEQWPLVWI HAPLPHTSQC PWGQLLASAV LLL IYOE-PFKYL KIGKYARMRG AHTNDVKQLT EAV .KQ.WPL.WL HIP.P.TS.C PWG.LLA L.L		483 398 544 550
HTLV-II Pol HTLV-I Pol HIV SF2 POl Consensus	NMSKCALC-D FLRNSPHPSV GILIHHMGRF HNI NISTOTFN-D FIQTSDHPSV HILLHHSHRF KNI KLPICKETWE AWWTEYWOAT WIPEWEFVNT PHI N.S.CFTS.HPSV .TL.HHRF .NI	GAQTGEL WNTFLKTAAP VKLWYQL EKDPIVGAET	532 447 594 600
HTLV-II Pol HTLV-I Pol HIV SF2 POl Consensus	LQEPRLLRPI FTE SPVVLLT APCLFSDGSP QKAV LAPVKALMPV FTE SPVIINT APCLFSDGST SRAV FYVDGAANRE TKLGKAGYVT DRGRQKVVSL TDT LAL.P. FTE SPVTE APCLFSDGSA	NQKTEL QAIHLALQDS	582 497 644 650
HTLV-II Pol HTLV-I Pol HIV SF2 POl Consensus	PSHETHSACK GET ALICGL RAAKPWPSLN IFL PPPH-KSAOR AET GLLHGL SSARSWRCLN IFL GLEVNIVUOS QYALGIIQAQ PDKSESELVS QII PSAQEILGLI.GLAWLN IFL	SKYLYH YLRTLALGIF QLIKKE KVYLAWVPAH	632 546 694 700
HTLV-II Pol HTLV-I Pol HIV SF2 POl Consensus	I TSAHQTLO AALPPLLQCK TIY HHVRSH TNLI QCRSSQAPFO ALLPRLLSRK VVY HHVRSH TNLI KGIGGNEQVO KLVSAGI-RK VLF DGI DKAQ .G.S ALLP.LL.RK V.Y HHVRSH TNLI	POPISRL NALTDALLIT DEEHEKY HSNWRAMA	682 596 738 750
HTLV-II Pol HTLV-I Pol HIV SF2 POl Consensus	PLVH I QGL HGLTHCNQRA LVSFGATPRE AKSI PVLQIS AEL HSFTHCGQTA LTLQGATTTE ASNI SDFN FF VV AKE: P L. L. H THC.Q.A LVGATE	ILR HA CRGGNPOHOM IVASOK O2LKGEAM	732 646 765 800
HTLV-II Pol HTLV-I Pol HIV SF2 POl Consensus	PREY RRGLL PHENO COURS YKYKYKYK LEW PROHURRGLL PHENO COURS FKYKYTLYR LEW PROLURRGLL PHENO COURS KYK LLY. LEW	-ASGY EAEVIPA	782 696 807 850
HTLV-II Pol HTLV-I Pol HIV SF2 POl Consensus	USSE:ISSLE DAIAHLGKPS YUNUNGPY ISD USGEDAYFIL KLAGRWPVKT -IHUUNGSNF IST	EFOEFOR SYRUK-STHU DFLNMOR SLAUR-TTHO TVKAA-W WACUK EFGI .FCR SKF.THU	832 746 856 900

11/3/97

HTLV-II Pol	PYNPISSELVERINGVIKNL LNKYLLDCPN EPLDNAIHKA LWTLNQLNVM	882
HTLV-I Pol	PYNPISSELVERINGILKIL LYKYFTEKPD EPMDNALSIA LWTINHLNVL	796
HIV SF2 POl	PYNPOSOGVV SSMINEIKKI IGQVRDCAEH EKTAVQMAVF IHNFKRKGGI	906
Consensus	PYNPISSELVERINGIKL L.KYD.P. EP.DNAA LWT.N.LNV.	950
HTLV-II Pol HTLV-I Pol HIV SF2 POl Consensus	NPSGKTRWQI HHSPPLPPIP FASTPPKPPP KWFYYKLPGL TNQRWKGPLQ TNCHKTRWQL HHSPRLQPIP FIRSLSNKQT HWYYFKLPGL NSRQWKGPQE GGYSAGERIV DIIATDIQTK FLQKQITKIQ NFRVY-YRDS REPLWKGPAKKTRWQ. HHSP.L.PIP FKW.YYKLPGLWKGP.	932 846 955 1000
HTLV-II Pol	SIQEAACAAL LSIDGS-PRW IPWRFLKKAA CPRPDASELA EHAATDHOHH	981
HTLV-I Pol	ALQEAAGAAL IPVSASSAQW IPWRLIKRAA CPRPVGGP-A DPKEKDLOHH	895
HIV SF2 POl	LLWKGEGAVV IQDNSD-IKV VPRRKAKI IRDYGKQMAG DDCVASRODE	1002
Consensus	LEQEAACAAL ISW IPWR.IK.AA CPRPA DD.OHH	1050
HTLV-II Pol HTLV-I Pol HIV SF2 POl Consensus	G G D	982 896 1003 1051



HTLV-II Gag	MGOIHGLSPT PIPKAPRGLE THHWLNFLOA AVRI PRESD FDE OURREL	50
HTLV-I gag	MGOIFSRSAS PIPREPRGLA AHHWLNELQA AVRI EPGPSS YDEHOLKKEL	50
Consensus	MGOIL G. DIE DRGI HHWLNELQA AVRI B.DG. DE OL EL	50
HTLV-II Gag HTLV-I gag Consensus	KTALKTPIWL NPILYSLIAS LIPKGYPGRV METINILVKN OVSPSAPAAP KTALETPARI CPINYSLIAS LIPKGYPGRV NEILHTLTOT OAO K.AI TE DIVSLIAS LIPKGYPGRV ET III.	100 93 100
HTLV-II Gag	VETPICPTTT PEPPPPESEEAHV PPPYVEPTTT OCFPTTHPEG	143
HTLV-I gag	TESR EAPPPESET HDPPDSDPQL PPPYVEPTAP OVIEWHERE	137
Consensus	E PPPESE SE PPPVVEPT O DE HE C	150
HTLV-II Gag HTLV-I gag Consensus	APSAHREWOM KOLOAIKOEV SCALGSPOF MOJI RLAVOO FOPTAKOLOO AEPNHREWOM KOLOAIKOEV SOAAFGSPOF MOJI RLAVOO FOPTAKOLOO AE. HREMOM KOLOAIKOEV S. A. GSEOF MOJI RLAVOO FOPTAKOLOO	193 187 200
HTLV-II Gag HTLV-I gag Consensus	LLOYLESSLV WSLHHOOLNT LITEABUREM NEWNEMAGEL RYDANNE OO LLOYLESSLV ASLHHOOLLS LITEBABURET NEWNELAGEL RYDANNE OO LLOYLESSLW SLHHOOLLS LITEBABURET NEWNE AGEL R DANNE OO	243 237 250
HTLV-II Gag	GLEREYOLIN LAAFFILIPGN TEDESWAFIL OGLEEPY AF VERLNIALIN	293
HTLV-I gag	GLEREYOLIN LAAFFALIPGS AKDESWAFIL OGLEEPYHAF VERLNIALIN	287
Consensus	GLEREYO LIN LAAF TIPE DESWAFIL OGLEEPY AF VERLNIALIN	300
HTLV-II Gag HTLV-I gag Consensus	CHOSECURY DESIGNATION VICEGOR TOOK RESURVICIONS WHEN CO TOTAL CONTRACTOR OF WHICH CONT	343 337 350
HTLV-II Gag	KOKUKULVVO LEREPPETORO PROGKUCHWS RECTORRED GROEF CODER	393
HTLV-I gag	KOKUKULVVO PEKARPPENORO PROGKUCHWS RECTORRED GROEF CODER	387
Consensus	KOKUKULVVO PEKARPPENORO PROGKUCHWS RECTORRED GROEF CODER	400
HTLV-II Gag	HWKRUCE IK FPOEPG FRAMIDIEST SCTTEEKNSL RGBI	433
HTLV-I gag	HWKRUCE KK TIPEFERPE ALMODIE HDIPHEKNFI GGEV	429
Consensus	HWKHEGE KK T. IE. B	444

GAGALIGNMENT

HTLV-II Gag	MGQIHG-LISP TPIPKAPRGL STHHWLNFIQ AAYRLQPRPS DFLEQQLRRF	49
HTLV-I gag	MGQIFS-RSA SPIPRPPRGL AAHHWLNFIQ AAYRLEPGPS SYLFHQLKKF	49
HIv SF2 Gag	MGARASVISG GELDKWEKIR LRPGGKKKYQ LKHIVWASRE LERFAINPGL	50
Consensus	MGQI.S-LISPIPK.PRGLHHWLNFIQ AAYRL.P.PSDE.QLF	50
HTLV-II Gag	KLALKTPIW LNPICYSTLA SLIPKGYPGR VVEIINILVK NQVSPSAPAA	99
HTLV-I gag	LKIALETPAR ICPINYSILA SLLPKGYPGR VNEILHILIQ TQA	92
HIv SF2 Gag	LETSEGCRQI LGQLOHSIKI GSEEIRSLYN TVATLYCVHQ KIEVKDTKEA	100
Consensus	LK.AL.TP L.PILYSILA SL.PKGYPGR VVEIL.IL.Q .Q	100
HTLV-II Gag HTLV-I gag HIv SF2 Gag Consensus	PVPTPICPTT TPPPPPPPSPEAH VEPPYVEPTT TQCFPILHPP QIPSRPAPPPPSSP THDPPDSDPQ IFPPYVEPTA PQVLPVMHPH LDKIEEEQNK SKKKAQQTAA DTGNSSQVSQ NYPTVQNLQG QMVHQPISPR .PP. PPPPP.SP .QFEPYVEPT .QV.PHE.	142 136 150 150
HTLV-II Gag	GAPSAHRPWO MKDL-QATKQ EVSSSALG-S POFMOTLRLA VOQFTPTAKD	190
HTLV-I gag	GAPPNHRPWO MKDL-QATKQ EVSQAARG-S POFMOTILRLA VOQFTPTAKD	184
HIv SF2 Gag	TLNAWVKVVE EKAFSPEVIP MESALAEGAT PODLNIMLNI VGGHÇAAMQM	200
Consensus	GAPHRPWO MKDL-QATKQ EVSA.C-S POFMOTI.RLA VOQFTPTAKD	200
HTLV-II Gag HTLV-I gag HIv SF2 Gag Consensus	QULLOYLOS SLVVSIHH QQLN-TLITE AETRGMTGYN PMAGPLRMQA QULLOYLOS SLVASIHH QQLD-SLISE AETRGITGYN PLAGPLRVQA LKETINEEAA EWDRLHPVHA GPIAPGQMRE PRGSDIAGIT STLQEQIGWM QULLOYLOS SLV.SIHH QQLLI.E AETRGITGYN P.AGPLR.QA	237 231 250 250
HTLV-II Gag HTLV-I gag HIv SF2 Gag Consensus	NNPAQQGLRR FYQNLWLAAF STLPGNTRDP SWAATLOG LE EPYCAFWERL NNPQQQGLRR FYQQLWLAAF ALPGSAKDP SWASILOG LE EPYHAFVERL TNNPPIPVGE IYKRWIILGL XKIVRMYSPT SILDIROGPK EPFRDYVIRF NNP.QQGLRR FYQ.LWLAAF .LPGDP SWA.II GG LE EPY.AFAFRL	287 281 300 300
HTLV-II Gag	NVALDAGLPE GTEK PILRS LAYSVANKEC OKI DARCHI NSE GEVIRI	337
HTLV-I gag	NIELDAGLPE GTEK PILRS LAYSVANKEC OKI DARCHI NSE GEVIRA	331
HIv SF2 Gag	YKULREQAS ODVKWMTEN LLVCVANPIC KTILKALGPA - ATLERMATA	349
Consensus	N.ALDAGLPE GTER PILRS LAYSVANKEC OKI OARCHI NSE GEWIRA	350
HTLV-II Gag	COAW-TIPKIK IKWVVOPRRPPPTO FOFRCOKVGH	371
HTLV-I gag	COTW-TIPKIK IKWVVOPKKPPPNO FOFRCOKACH	365
HIv SF2 Gag	COGVGGEGHK REV AEAMSO VNSVTVMMOK GNEKNORKTV KOFNOGKEGH	399
Consensus	CO.W-TIPKIK IVKWVVOPK.PPPTO FOERCOK GE	400
HTLV-II Gag HTLV-I gag HIv SF2 Gag Consensus	WSR TOPSP PPG-FCSHW KRDCPQ WSR CIQPSP PPG-FC	401 395 449 450

HTLV-II Gag	NEGEDTAPDA E	G	-PLLLDIFST	SGTTEEK	NSLRGEI	433
HTLV-I gag	LKETIPEPEP E	Е	-ALLIDIE	ADIPHPK	NFIGGEV	429
HIv SF2 Gag	NEFEPTAPPA E	FGFGETT	TPPQKOEPID	KGLYPLTSLR	SLFGNDPSSQ	499
Consensus	LKEE.E	GE	-PLLLDLE	.GTK	NGGE	500